

US Model Canadian Model AFP Model UK Model E Model

STEREO TURNTABLE SYSTEM

SPECIFICATIONS

GENERAL

Power Requirements:

120, 220 V ac, 50/60 Hz (AEP, E model) 220, 240 V ac, 50/60 Hz (UK model) 120 V ac, 60 Hz (US, Canadian model)

Power Consumption:

8W (US, Canadian model) 12W (AEP, E, UK model)

Dimensions:

480 (w) x 165 (h) x 420 (d) mm $18\frac{7}{8}$ (w) x $6\frac{1}{2}$ (h) x $16\frac{1}{2}$ (d) inches including projecting parts and controls

Weight:

Approx. 12 kg, 26 lb 7 oz (net) Approx. 13.3 kg, 29 lb 5 oz

(in shipping carton)

TURNTABLE

Platter:

32 cm (125/s inches), diecasting

aluminum alloy

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ !

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE A SUR LES DIAGRAMMES SCHÉ-MATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY.

DC servo-controlled linear BSL motor Motor:

Direct drive, crystal lock control Drive System:

system

 $33\frac{1}{3}$, 45 rpm. Speeds:

Comes to nominal speed within a half **Starting Characteristics:**

75 dB (DIN-B)

revolution (331/3 rpm)

±0.045% (DIN) Wow and Flutter:

0.025 % (WRMS)

Within 0.0003 % Initial Drift:

S/N Ratio:

Load Characteristics: 0 % up to 150 g tracking force

Lead-in, return, reject, repeat **Automatic System:**

TONEARM

Statically balanced, universal Type:

330 mm (13 inches), overall 235 mm ($9\frac{1}{4}$ inches), pivot-to-styl us Arm Length:

14 mm (%16 inches) Overhang:

+2°27', -1°30' Tracking Error:

Tracking-force Adjustment

Range: 0 - 2.5 g

Shell Weight: 11 a

Cartridge Weight Range: 11.0 - 19.5g

 $(19.0 - 27.5\,\mathrm{g}\,\mathrm{with}\,\mathrm{extra}\,\mathrm{weight})$ (including shell)



SERVICING NOTE

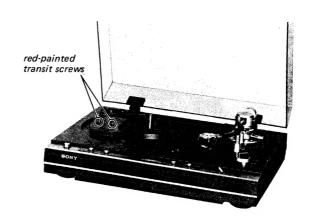
- 1. Wait a few minutes after the power switch is turned on.
- 2. When replacing the lamp of automatic-return detection, make the automatic-return adjustment (page 13).
- 3. Platter handling.

4. When operating the set, confirm that the transit screws are removed.





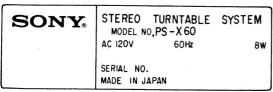
Be sure not to spoil the magnetic coating (dark brown color).



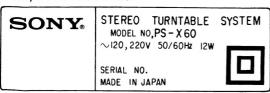
MODEL IDENTIFICATION

- Specification Label -

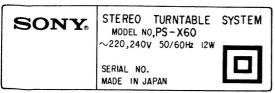
(US, Canadian model)



(AEP, E1 and E2 model)

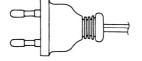


(UK model)



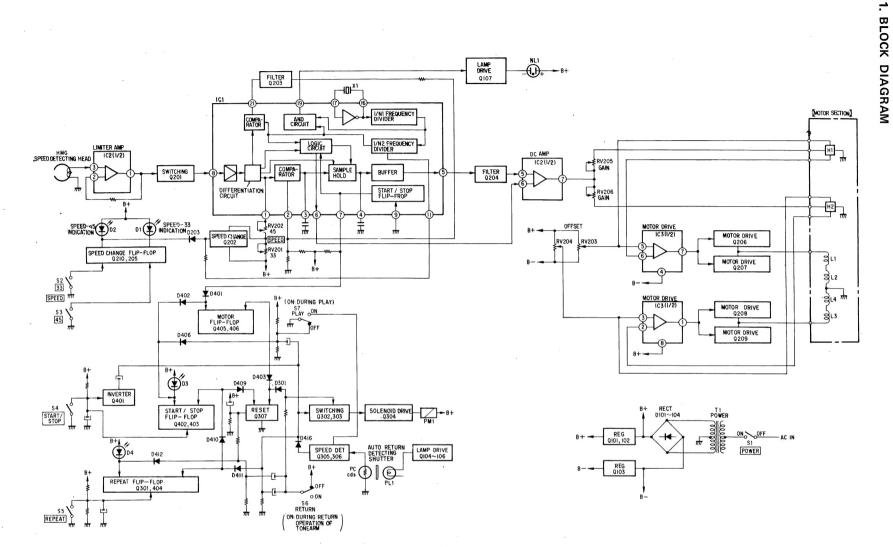
- Power Cord -

E1 model: euro-plug E2 model: parallel-blade plug 1-551-530-00 1-534-487-XX





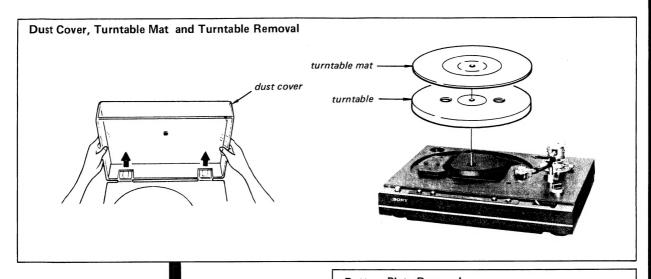
SECTION 1

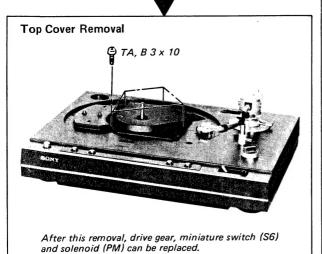


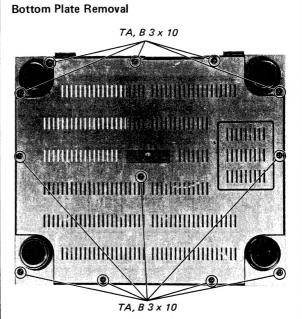
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SECTION 2 DISASSEMBLY

 Follow the disassembly or the installation procedure in the numerical order given.



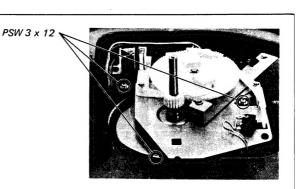


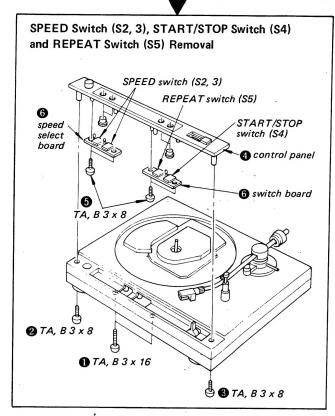


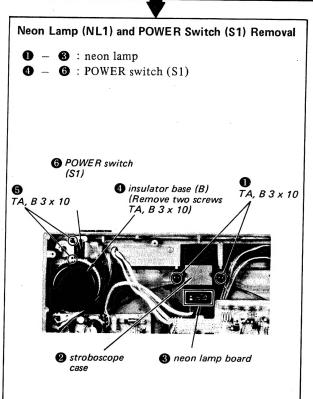
Motor Removal

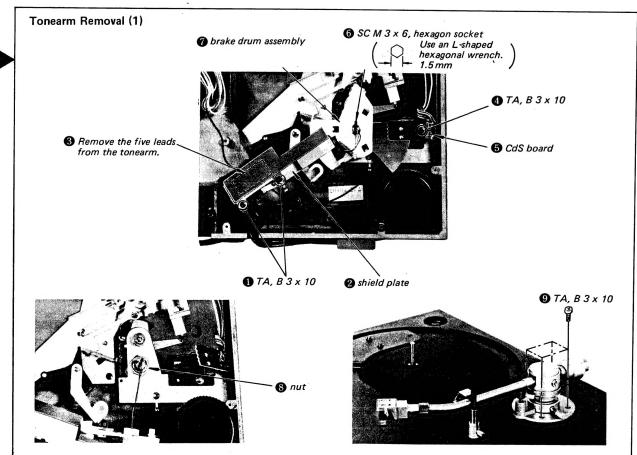
(See page 7.)

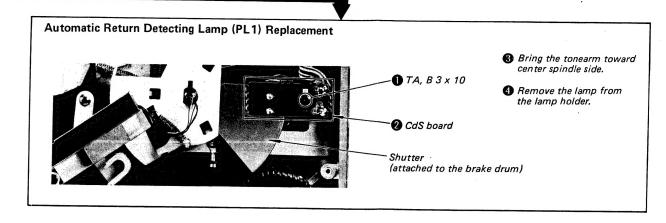
- 1. Disconnect the moter lead-wires from the servo amp/system control board.
- 2. Remove the three screws (PSW 3 x 12).
- 3. Remove the motor.

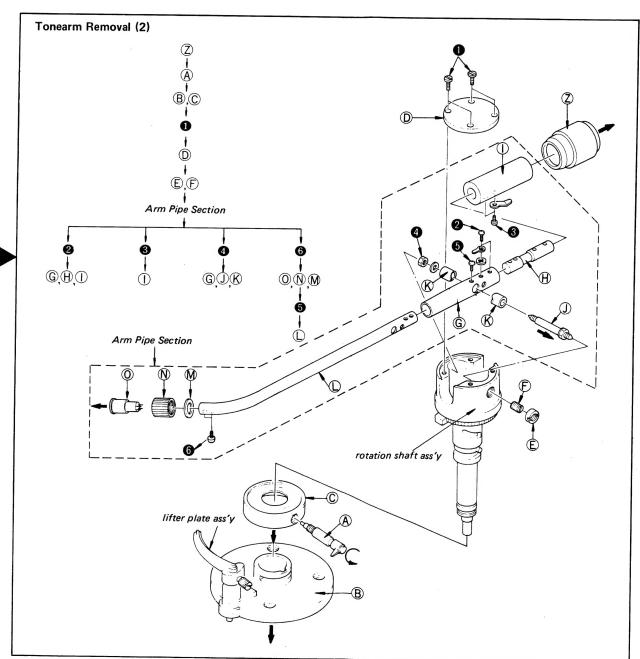




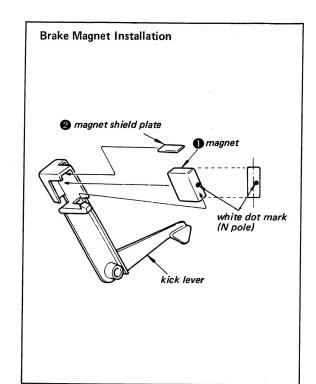


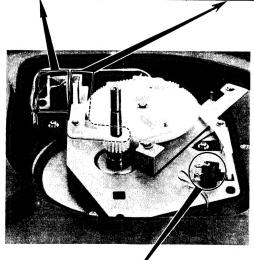


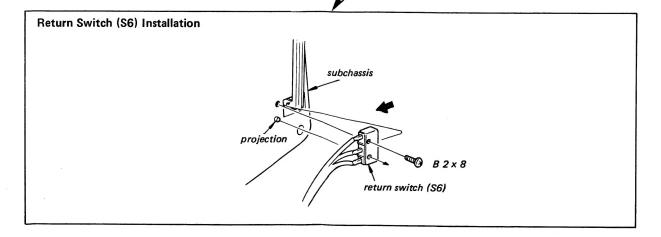




Solenoid (PM1) Installation Note: Install the solenoid (PM1) in parallel to the line (A). TA, B 3 x 10 solenoid (PM1) frame parallel





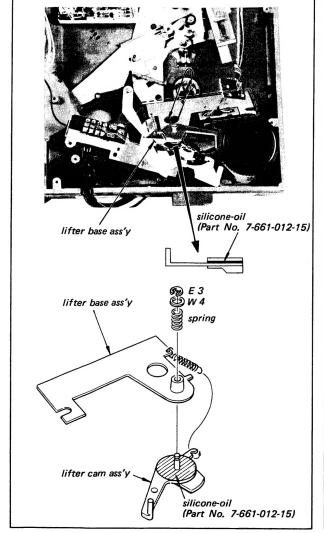


Note on Arm Lifter Mechanism

The arm lifter mechanism of this set uses siliconeoil as damper between the lifter cam assembly and the lifter base assembly.

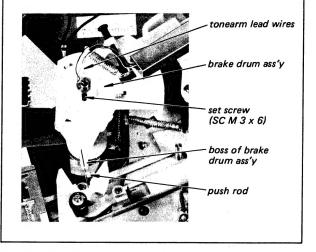
If the arm lifter moves down too quickly, apply silicone-oil in the numerical order given.

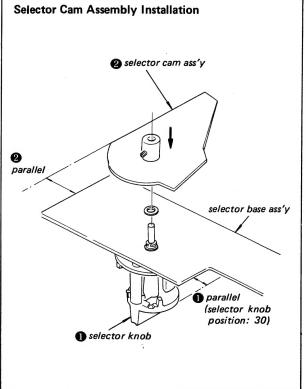
- 1. Perform the tonearm removal (1) on page 5.
- 2. Remove the lifter base assembly.
- 3. Remove E3 and the lifter cam assembly from the lifter base assembly.
- 4. Wipe off the silicone-oil on the lifter cam assembly and the lifter base assembly.
- 5. Apply silicone-oil (7-661-012-15) on the lifter cam assembly.
- 6. Install the lifter cam assembly on the lifter base assembly.

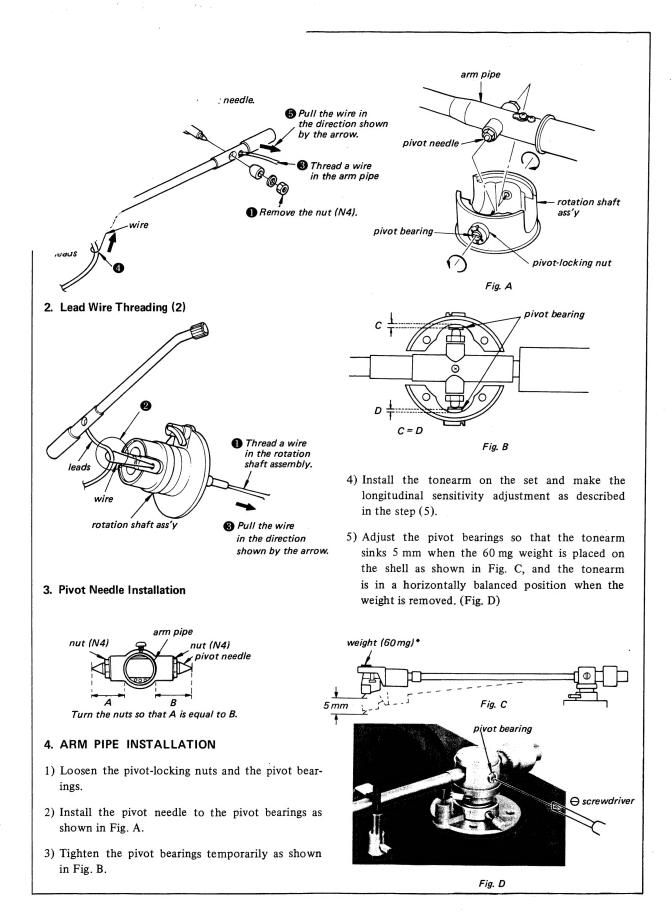


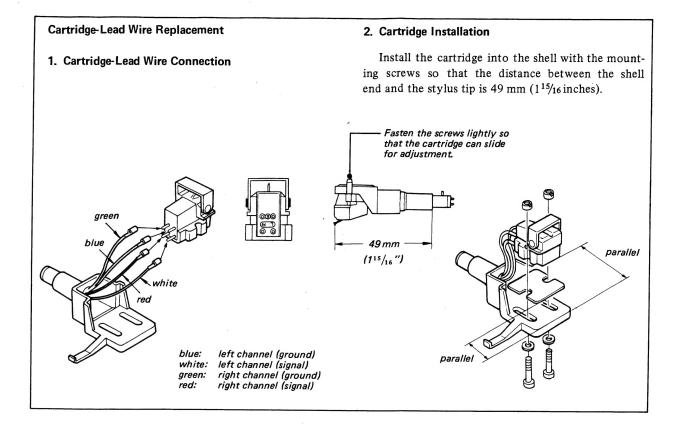
Brake Drum Assembly Installation

- 1. Thread the lead wires of tonearm in the brake drum assembly.
- 2. Insert the brake drum assembly in the rotation shaft of tonearm.
- 3. Place the boss of brake drum assembly as shown below and fix the brake drum assembly with a set screw (SC M 3 x 6).
- 4. Perform the automatic return adjustment (Refer to the page 13).



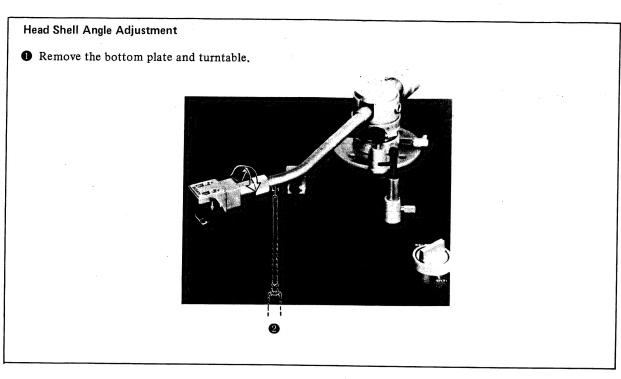


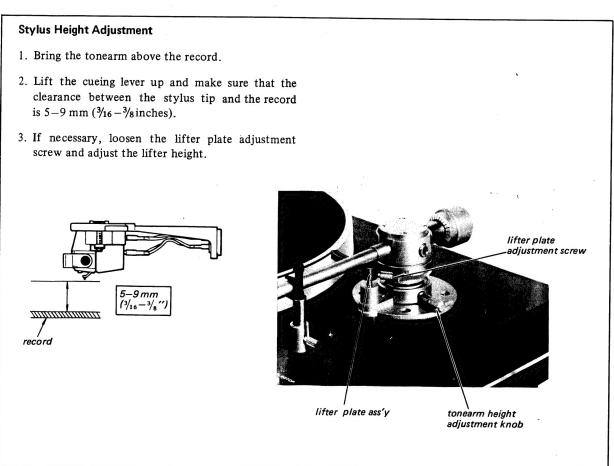




SECTION 3 ADJUSTMENTS

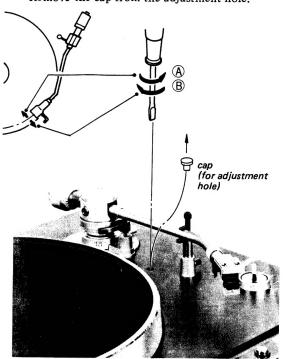
3-1. MECHANICAL ADJUSTMENTS





Stylus Drop-point Adjustment

• Remove the cap from the adjustment hole.



1. Set the record size selector lever to the 30 (12") position and make sure that the stylus gets down on the specified point of the test record.

test record: YFSC-16

Record size selector lever position	Count of drop-point
30 (12")	4 to 16
25 (10")	6 to 24
17 (7")	7 to 25

2. If necessary, insert the screwdriver into the hole and adjust the drop-point by turning the adjustment screw.

To change the drop-point inward

Turn the adjustment screw slightly counterclockwise (A).

To change the drop-point outward:

Turn the adjustment screw slightly clockwise $\ensuremath{\mathbb{B}}$

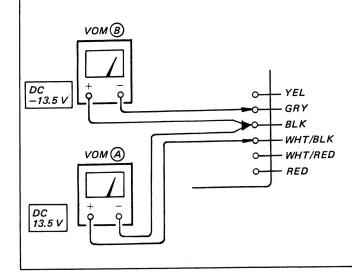
3. Once it is properly adjusted with a 30 cm (12") record, the drop-point will be correct for 17 cm (7") and 25 cm (10") records as well.

Note: The stylus drop-point is changed to about 12 mm (½?) by one turn of the adjustment screw.

3-2. ELECTRICAL ADJUSTMENTS

B+ Voltage Adjustment

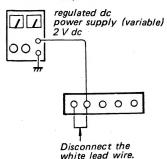
Adjust RV101 for 13.5 V dc reading on the VOM \bigcirc , and -13.5 V dc reading on the VOM \bigcirc .



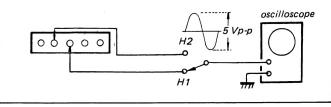
RV206 (H2) RV205 (H1) RV101 RV203 RV204

Hall Device Gain Adjustment (331/3 rpm)

1. Disconnect the white lead wire and connect the regulated power supply as shown below.

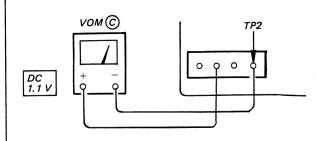


- 2. Connect an oscilloscope to H1 and adjust RV205 for the specified waveform on the oscilloscope.
- 3. Connect an oscilloscope to H2 and adjust RV206 for the specified waveform on the oscilloscope.

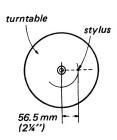


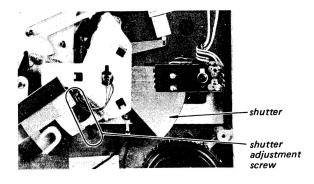
Automatic Return Adjustment

- 1. Set the power switch on.
- 2. Bring the tonearm toward the center spindle side.
- 3. Adjust RV102 for 1.1 V dc reading on the VOM © .



4. Set the stylus position as shown below. Adjust the shutter adjustment screw for 7.3 V dc reading on the VOM (C).

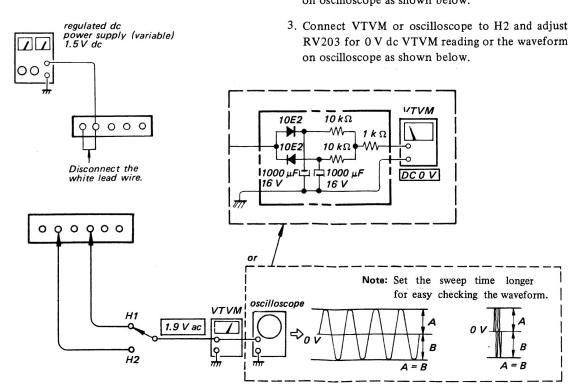




- 5. Play the test record (YFSC-6, BAND 2, 33 rpm).
- 6. Turn the shutter adjustment screw so that tonearm starts to return at count of 15-17.
- 7. Play the test record (YFSC-6, BAND 3, 33 rpm).
- 8. Adjust RV102 so that the tonearm starts to return when only 1 kHz playback signal is heard.
- 9. If RV102 is turned, readjust the steps 4 to 7 serveral times.

Motor Amp Offset Adjustment (33 rpm)

1. Disconnect the white lead wire and connect the regulated power supply as shown below.



2. Connect VTVM or oscilloscope to H1 and adjust RV204 for 0 V dc VTVM reading or the waveform on oscilloscope as shown below.

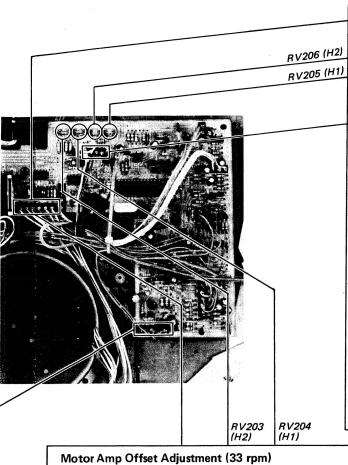
RV203 for 0 V dc VTVM reading or the waveform

S

1.

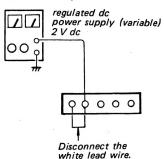
3.

5.

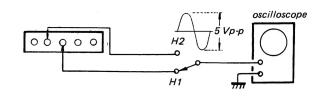


Hall Device Gain Adjustment (33½ rpm)

1. Disconnect the white lead wire and connect the regulated power supply as shown below.

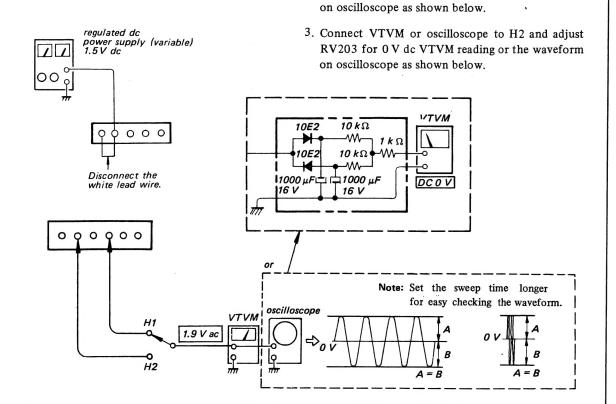


- 2. Connect an oscilloscope to H1 and adjust RV205 for the specified waveform on the oscilloscope.
- 3. Connect an oscilloscope to H2 and adjust RV206 for the specified waveform on the oscilloscope.



2. Connect, VTVM or oscilloscope to H1 and adjust $RV204\ for\ 0\ V\ dc\ VTVM$ reading or the waveform

1. Disconnect the white lead wire and connect the regulated power supply as shown below.



3. If the correct waveform does not appear, adjust RV202 (45 rpm). 4. Set the SPEED switch (2, 3) to "33" position.

Turntable Speed Adjustment

2. Reference waveform:

5. Reference waveform:

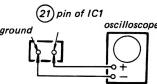
1. Set the SPEED switch (S2, 3) to "45" position.

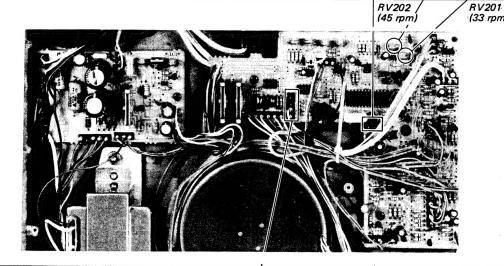
100-200 μS

Note: Waveform must appear + side.

Note: Waveform must appear + side.

6. If the correct waveform does not appear, adjust RV201 (33 rpm) so that the stroboscope pattern appears stationary.



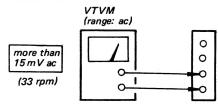


Speed Detecting Head Output Level Adjustment

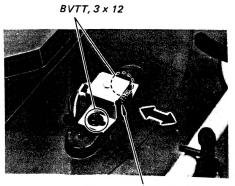
Power switch: ON

- 1. Adjust the position of the head so that the VTVM reading is more than 15 mV ac at 33 rpm.
- 2. Make sure that the head does not touch the turntable and tighten the screws securely.

Note: The clearance between the magnet coated rim and the speed detecting head must be more than 0.3 mm.



- Adjustment Location -



speed detecting head (HMG)

D3,4

SLP24B

[SERVO AMP/SYSTEM CONTROL BOARD]

※C100, 101 AEP, MODEL----0.01/450V (AEP, E1, E2 MODEL)EI, E2MODEL ---0.01/300V

-17-

SECTION 4

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque Asont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. SCHEMATIC DIAGRAM **DIAGRAMS** US, CANADIAN MODEL Q202 2SA733P SPEED CHANGE CX 193 (I) R220 220(1/2W) Q206,208 25C1419 C Q203 2SC945 Q207, 209 2SA755C MOTOR DRI IC3 LIPC4557C MOTOR DRIVE R216 ≸ 33K ₹ FILTER Q203 CARTRIDGE OUTPUT 24V R218 33K (PHONO PLUG) Q202 RII5 4.7 1/N2 freque-ncy divider IC3(1/2) - IWV 0,2V Н1 C209 51P SPEED \$ R212 C208 ± R251 **≸** C212 + R219 **}** 0.022 + 10K C218 0.1 L2 0 þ Ò R248 33K C210 22000<u>F</u> R239 39K ≸ IC3(1/2) H 2 RV204 10K OFFSET L3 0 H1, H2 5GF-MS-07F HALL DEVICE C 219 0.1 L4 a **≱**R237 ≸39K IC2(1/2) Q201 R252 33K UPC4557C LIMITER AMP 2SC945 SWITCHING IC 2(2/I) UPC4557C DC AMP MOTOR SECTION 0204 2SC945P R229 R2300V(2.1V)
10K 10K
C215 IC2(I/2) SPEED DETECTING HEAD 0V(1,35V) R202 10K **≸**GAIN US, CANADIAN MODEL Q104~106 LAMP DRIVE ՛® POWER SUPPLY BOARD Q204 Q104 2SC1419 D201 1T40 D202 1T40 R206 ≸ \$R228 C216 R231 \$15 K 0.047 10K \$ SPEED SELECT R111 ≸ BOARD Q210, 205 2SC945 SPEED CHANGE FLIP-FLOP Q405,406 2SC945 MOTOR FLIP-FLOP -10,6V Q105 Q304 2SC945 SOLENOID DRIVE Q302 2SC945 SWITCHING RETURN POWER PMI A SOLENOID **D**" Q303 2SC945 SWITCHING WHEN PMI IS ACTIVATED, PMI PUSHES CLAW OF 13**.**5V D1 D203 1T40 R401 OV 0.6V 10K (0.6V) (0V) R224 \$ Q105,106 2SC945P D107 EQA01-06 R227 100K R325 120 (1/2W) 33 Q303 J D2 **(** Q102 2SC945P_{13,5V} Q101 REG 2SC1419C SPEED T D101-104 R428 33K **\$**R429 **\$**33 K S3 45 Q401 2SC945 INVERTER POWER D406 1T40 Q305,306 2SC945 Q402,403 2SC945 START/STOP FLIP-FLOP SPEED DET SI P24 B SWITCH BOARD **(1)** D3 . D302 EQA01-11 B+ Q307 VIO 220V S4 ≸R103 11K START **★C101 CORG 120V** C401 ± ONHT OV -13.5V Q103 2SA844-24V D106 EQA01-15 Q301,Q404 2SC945 REPEAT FLIP - FLOP Q307 2SC945 ⚠ D105 172V R107 8.2K(1W) SIB01-06 8.7 V ≹R421 10 K RECT D4 🕏 R423 100K OV ((13V)) NLI A D411 1T40 C407 R418 3.3 10 K 25 V 0307 25C945 S8 S1-2 120V+220V POWER 58 D 413, 414 1 T 4 0 (NEON LAMP BOARD) S7 PLAY (ON: DURING) D414 S5 VOLTAGE SELECTOR REPEAT S6 RETURN Q107 2SC926A NEON LAMP DRIVE ON: DURING
RETURN
OPERATION
OF TONEARM

AUTO RETURN DETECTING SHUTTER

and mark nly with

306 2SC945 PEED DET

D302 EQA01-11

E CAS

S7 PLAY (ON: DURING)

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro

Q102 2SC945P_{13,5V} Q101 REG 2SC1419C REG REG

|R104 |3.3K |B+

A-13,5V Q103 2SA844-24V D106 EQAO1-15

172V R107 8.2K(1W)

8

750

Q107 2SC926A

-17-

≸R103

NLI A

NEON LAMP BOARD

C105 100 16V

D101-104

⚠ D105

SIB01-06 RECT

R106 - C106 470 K 2.2 250 V

 Λ

PS-X60 PS-X60

- All capacitors are in μF unless otherwise noted. pF : μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in Ω , ¼ W unless otherwise noted. KΩ: 1000 Ω; MΩ: 1000 kΩ
- - : nonflammable resistor.
- _____: panel designation.
- _____ : adjustment for repair.
- All adjustable resistors have characteristic curve B, unless otherwise noted.
- ---: B+ bus.
- — : B-bus.
- Readings are taken under no-signal conditions with a VOM (20 $k\Omega/V$).

no mark : Tonearm is on arm rest.

S1 (POWER) · · · · · · · · · · ON) : S2 (SPEED 33) · · · · · · · · ON

Tonearm is on arm rest.

Selector knob · · · · · · · MANUAL

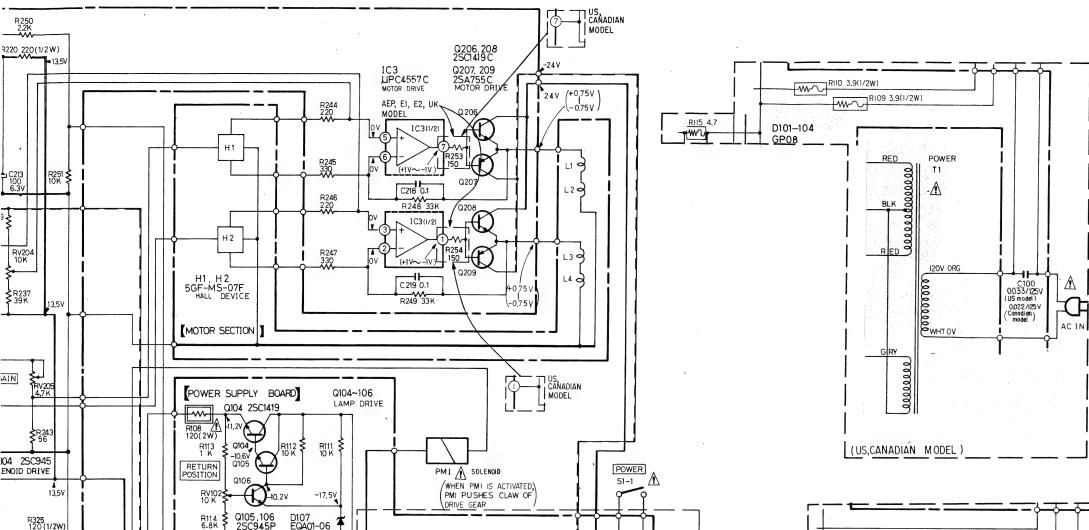
S1 (POWER)· · · · · · · · · ON S4 (START/STOP) · · · · · · · ON

)) When S5 (REPEAT) is pressed during play at

33 rpm.

Switch

	1	
Ref. No.	Switch	Position
S1	POWER	OFF
S2	SPEED 33	OFF
S3	SPEED 45	OFF
S4	START/STOP	OFF
S5	REPEAT	OFF
S6	RETURN	OFF
S7	PLAY	OFF ·
S8	VOLTAGE	220 V (AEP, E1,
	SELECTOR	E2 model)
		240 V (UK model)
		i



POWER

VIO 220V

58

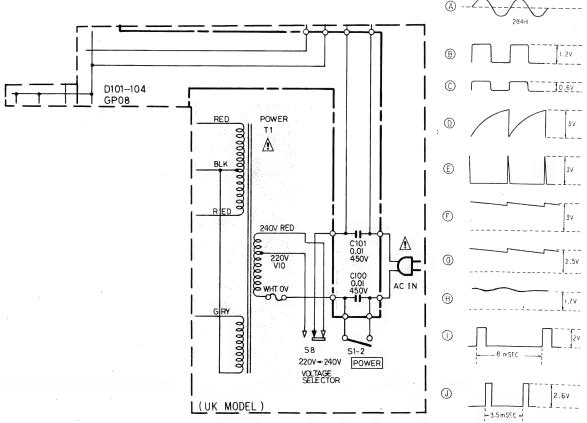
120V-220V

VOLTAGE SELECTOR

%C100, 101 AEP, MODEL----0.01/450V (AEP, E1, E2 MODEL)^{EI, E2MODEL} ---0.01/300V

POWER

ORG 120V





Replacement Semiconductors

For replacement, use semiconductors except in ().

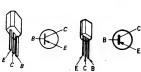
Q101, Q206, 208) 2SC1061 (2SC1419C) Q104 2SC1061 (2SC1419)



Q102, 105 Q106, 204) 2SC1364 (2SC945P) Q201, 203 Q205, 210 Q301-307 Q401-406) 2SC1364 (2SC945)



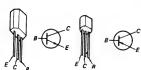
Q103: 2SA678 (2SA844)



Q107: 2SC926A



Q202: 2SA678 (2SA733P)



Q207, 209: 2SA671 (2SA755C)



IC1: CX193



IC2, 3: μPC4557C



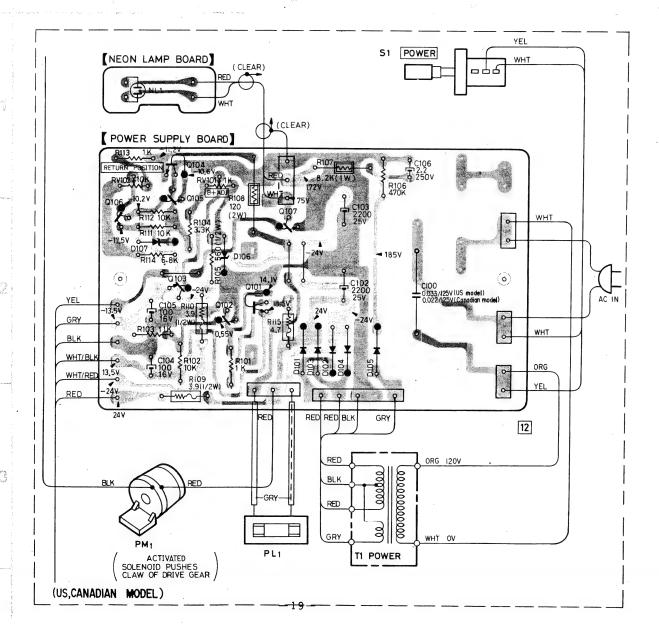
D1-4: SLP24B

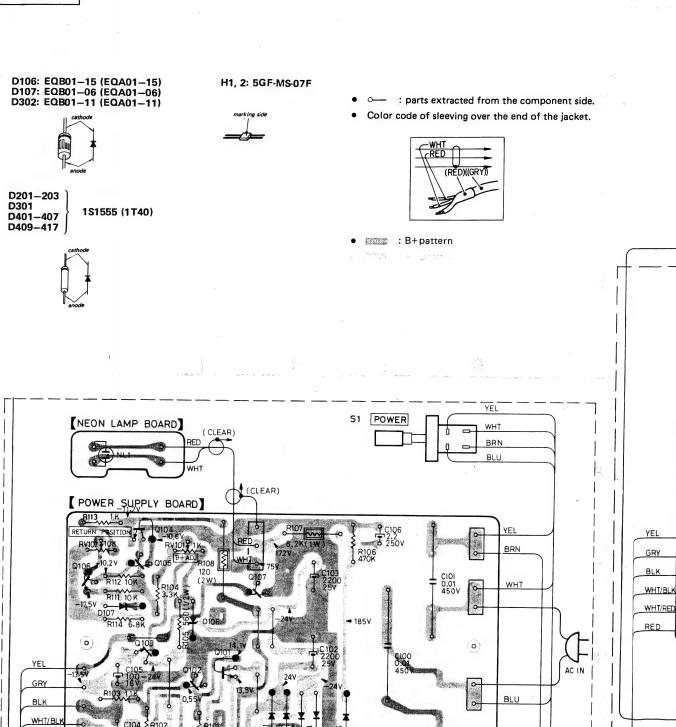
D101-104: 10E2 (GP08)



D105: 10D6 (SIB01-06)







T1 POWER

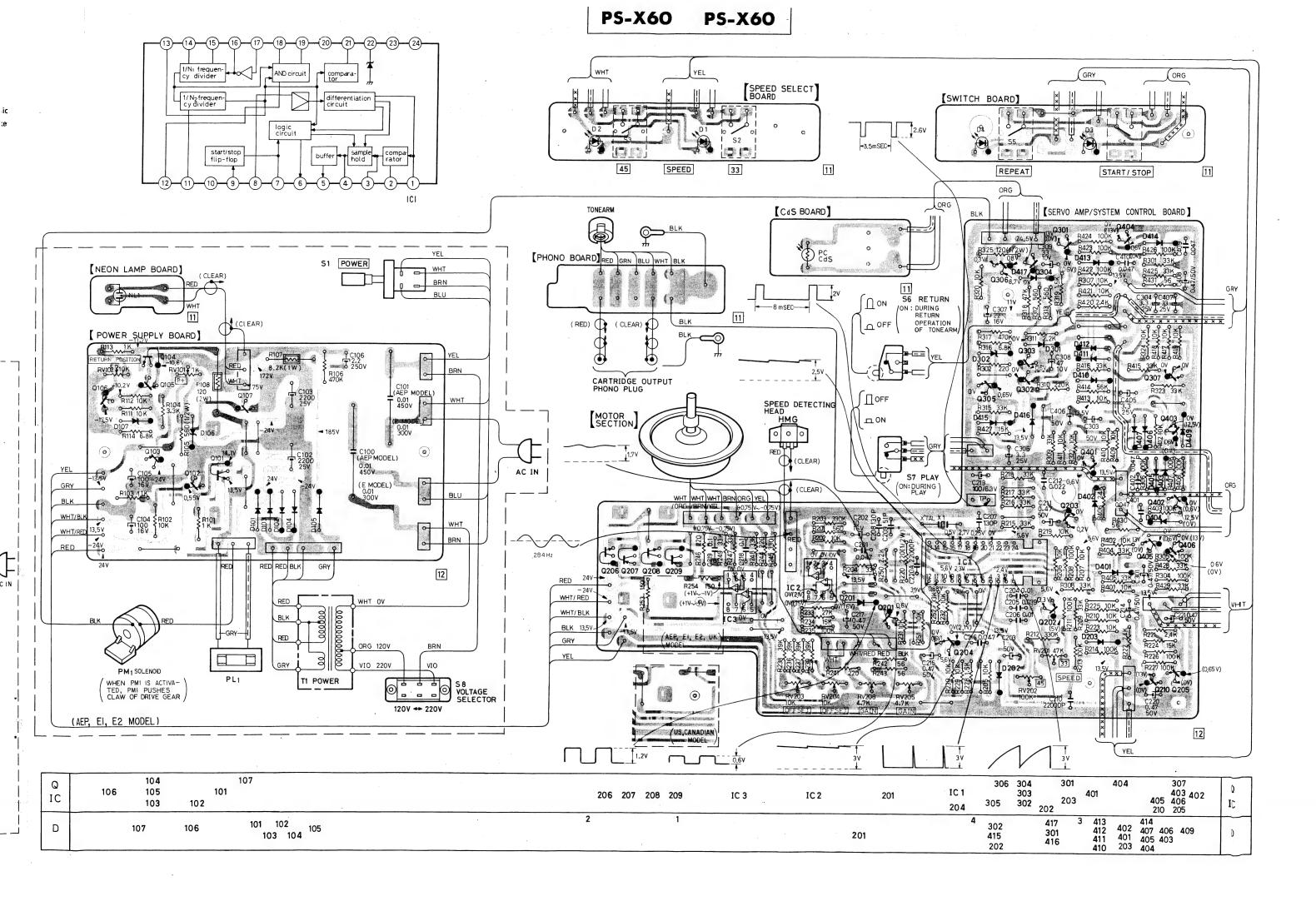
ACTIVATED

SOLENOID PUSHES CLAW OF DRIVE GEAR

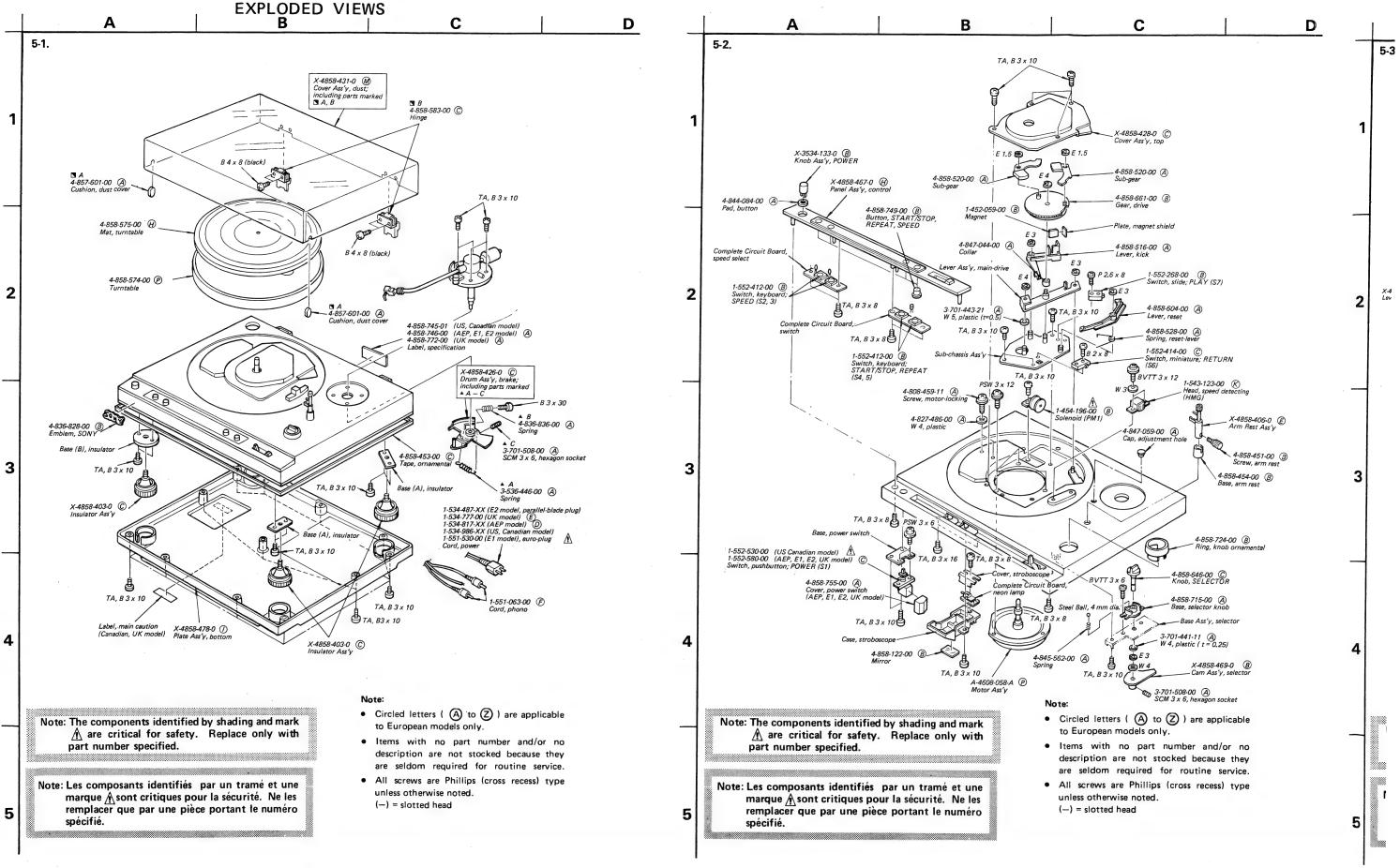
(UK MODEL)

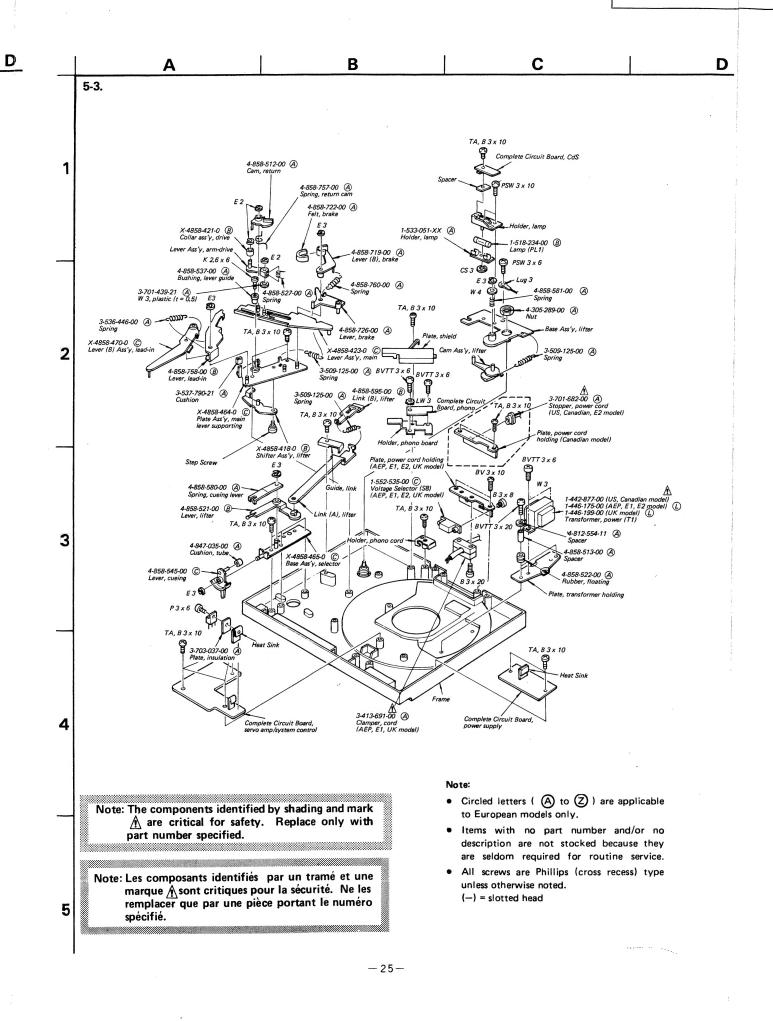
12

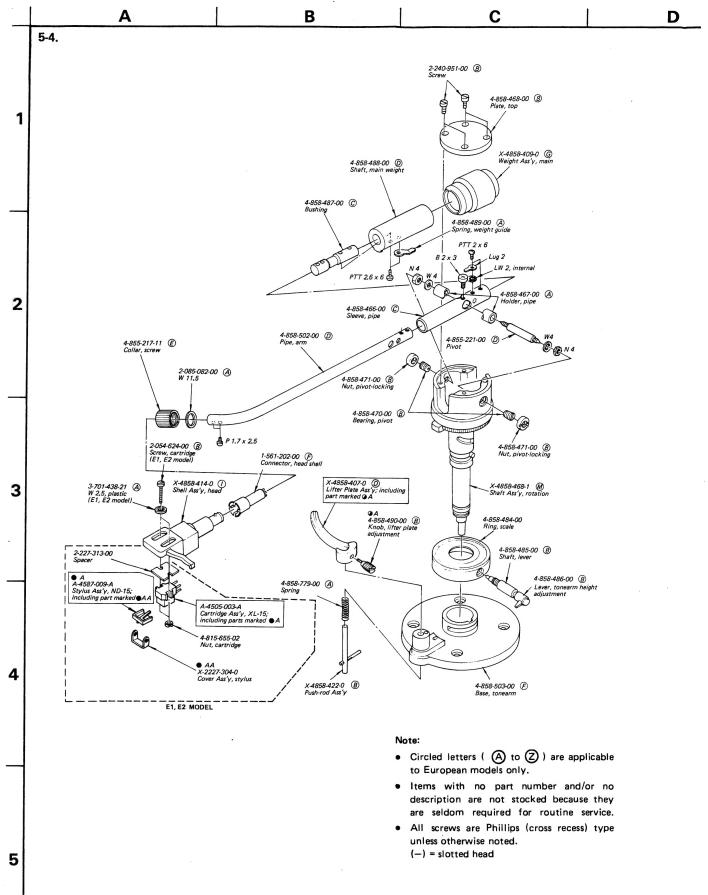
IC



SECTION 5







SECTION 6

ELECTRICAL PARTS LIST Note: Circled letters ((A) to (Z)) are

applicable to European models only.

Ref. No.	Part No.	Description		

		SEMICONDUCTORS
		Transistors
⇒	Q101	8-729-316-12 (D) 2SC1061
\Rightarrow	Q102	8-729-663-47 B 2SC1364
⇒	Q103	8-727-788-00 (B) 2SA678
⇒	Q104	8-729-316-12 D 2SC1061
⇒	Q105, 106	8-729-663-47 B 2SC1364
	Q107	8-720-950-03 © 2SC926A
⇒	Q201	8-729-663-47 B 2SC1364
⇒	Q202	8-727-788-00 B 2SA678
\Rightarrow	Q203-205	8-729-663-47 (B) 2SC1364
\Rightarrow	Q206	8-729-316-12 D 2SC1061
⇒	Q207	8-729-317-12 E 2SA671
⇒	Q208	8-729-316-12 D 2SC1061
\Rightarrow	Q209	8-729-317-12 🖲 2SA671
⇒	Q210	8-729-663-47 B 2SC1364
⇒		8-729-663-47 B 2SC1364
⇒	Q401-406	8-729-663-47 B 2SC1364
		ICs
	IC1	8-751-930-00 (K)CX193
	IC2, 3	8-759-145-57 © μPC4557C
		Diodes
	D1-4	8-719-900-24 © SLP24B
$\Rightarrow \frac{1}{2}$	D101-104	∆8-719-200-02 B 10E2
\Rightarrow	D105	8-719-210-06 B 10D6
⇒	D106	8-719-931-15 B EQB01-15

		Diodes
	D1-4	8-719-900-24 (C) SLP24B
\Rightarrow	D101-104	1 √8-719-200-02 (B) 10E2
	D105	<u>₹</u> 8-719-210-06 (B) 10D6
⇒	D106	8-719-931-15 B EQB01-1.
⇒	D107	8-719-931-06 B EQB01-06
⇒	D201-203	8-719-815-55 B 1S1555
⇒	D301	8-719-815-55 (B) 1S1555
⇒	D302	8-719-930-11 B EQB01-11
⇒	D401-407	8-719-815-55 B 1S1555
⇒	D409-417	8-719-815-55 B 1S1555

Hall Devices

8-719-905-07 D 5GF-MS-07F H1, 2

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

			applicable	le to Eu	ropean models on
1	Ref. No	Part No.	Desc	cription	
		TR	ANSFORME	ERS	
	Т1	1-442-877-	20 7	(T10 G	
	T1			r (US, C	anadian model)
	T1	1-446-173-0 1-446-199-0	o (L) Powe	r (AEP, I	E1, E2 model)
	11	<u>W</u> 1-440-133-0	o (L) Powe	r (UK m	odel)
		C	APACITOR	s	
	All capaci	tors are in µF ar	nd ceramic u	nless oth	erwise noted.
	50 WV or	less are not indi	cated except	for elec	trolytics.
		elect : electroly t			
	C100, 101	<u>_</u> 1-108-779-0	0.01	300 V	mylar (E1, E2 model)
	C100, 101	<u></u>	0 © 0.01	450 V	
	C100	1-130-098-0	0.022	125 V	
					(Canadian model)
	C100	<u>1-108-750-00</u>	0.033	125 V	
					(US model)
	C102, 103	<u>1</u> 1-123-047-00	© 2200	25 V	elect
	C104, 105	1-121-415-00	(A) 100	16 V	elect
	C106	<u> </u>	B 2.2	250 V	elect
	2.		v.) (5% -), 		
	C201	1-101-925-00	\sim		
	C202	1-121-651-00	\sim	16 V	elect
	C203	1-121-391-00	\simeq	50 V	elect
	C204	1-108-804-00	_		mylar
	C205	1-108-360-00	(A) 0.039		mylar
	C206	1-108-804-00	(A) 0.01		mylar
	C207, 208	1-101-081-00			my iai
	C209	1-102-491-00			
	C210, 220A				
	C211	1-121-726-00			elect
	C212	1-108-242-00	(A) 0.022		mylar
	C213	1-124-413-00		6.3 V	elect
	C214, 215	1-121-726-00		50 V	elect
	C216	1-108-812-00		30 v	mylar
	C217	1-121-726-00		50 V	elect
		/20 00		J0 ¥	01001
	C218, 219	1-108-870-00	A 0.1		mylar
	C220B, 221		(A) 0.47	50 V	elect
	C301	1-121-726-00	(A) 0.47	50 V	elect

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Circled letters (\bigcirc to \bigcirc) are

						applicable to European models only
Ref. No.	Part No.	Description	<u>1</u>	Ref. No.	Part No.	Description
C303	1-121-391-00	(A) 1 50 V	/ elect	S2-5	1-552-412-00	B Keyboard, SPEED, START/
C304, 306	1-121-392-00	(A) 3.3 25 V	elect	32 3	1-332-412-00	STOP, REPEAT
C307	1-121-479-00	🖲 22 16 V	elect	S6	1-552-414-00	B Miniature, RETURN
C308	1-121-352-00 (delect	S7	1-552-268-00	B Slide, PLAY
C309	1-121-402-00 ($\overline{\mathbf{A}}$ 33 10 V	elect		1002 200 00	D slide, I LA I
				S8	1-552-535-00	© Voltage Selector
C401, 402	1-101-952-00 ((AEP, E1, E2, UK model)
C405	1-121-392-00 (elect			(, 21, 22, 01 model)
C406	1-121-391-00 (elect		MISC	ELLANEOUS
C407	1-121-392-00 (elect			
C408	1-121-726-00 (elect	HMG	1-543-123-00	(K) Head, speed detecting
C409, 410	1-101-925-00	A) 0.047		NL1		B Lamp, neon
				PC	1-800-652-00	
	RESI	STORS		PL1	1-518-234-00	
411				PM1	<u></u> 1-454-196-00 €	
omitted.	are in ohms. Con	nmon ¼ W carbo	n resistors are	X1	1-527-380-21	D Crystal
All adjustable otherwise not	e resistors have characted. k Ω : 1000 Ω	naracteristic curv 2, MΩ: 1000 kΩ	e B, unless		A-4505-003-A	Cartridge Ass'y, XL-15 (E1, E2 model)
R105	1 244 067 00 6	S		1	A-4608-058-A(P Motor Ass'y
	1-244-867-00 (A) 560 ½ W	carbon		1-452-059-00 (B Magnet
K107 /	\1-213-154-00 (A)8.2k 1W	metal oxide		1-533-051-XX(A) Holder, lamp
R108 🗥	1 206 642 00 () 120	(nonflammable)		<u>↑</u> 1-534-487-XX	Cord, power; E2 model;
	1-206-642-00 (A)120 2W	metal oxide (nonflammable)	(-)		parallel-blade plug
R109, 110 🛕	1-212-948-00	3.9 ½ W	fusible		1-534-777-00 <i>(</i>	B) Cord, power (UK model)
		(US, C	anadian model)		1-534-817-XX	Cord, power (AEP model)
R115 🛕	1-217-383-00	4.7 ¼ W	fusible		1-534-986-XX	Cord, power (US, Canadian model)
		(US, C	anadian model)		1-551-063-00	F) Cord, phono
D.000					1-551-530-00	Cord, power; E1 model; euro-plug
	1-244-857-00 (A		carbon		1-561-202-00 (Connector, head shell
R325 1	1-244-851-00 (A)120 ½ W	carbon			
RV101 1	1-224-631-00 (A) 1 k, adjustable;	B+ VOLTAGE			
RV102 1	l-224-645-XX 🖱	10 k, adjustable	; RETURN			
	Ŭ	POSITION				
RV201 1	-224-636-00 A	47 k, adjustable	SPEED 33			
RV202 1	-224-648-XX(B)	100 k, adjustabl	e; SPEED 45			
RV203, 204 1	-224-634-00 👿	10 k, adjustable	OFFSET	1		
RV205, 206 1	-224-633-00 (R)	4.7 k adjustable	CAIN	1		

(AEP, UK, E1, E2 model)

RV205, 206 1-224-633-00 (B) 4.7 k, adjustable; GAIN

1-552-530-00

S1

S1

SWITCHES

1-552-580-00 © Pushbutton, power

Pushbutton, power

(US, Canadian model)

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque À sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Circled letters (A to Z) are applicable to European models only.

ACCESSORIES	AND PACKING MATERIALS
Part No.	Description
2-056-532-00	B Screw (A), cartridge (AEP, US, Canadian, UK model)
2-224-081-00	(A) Screw (E), cartridge (AEP, US, Canadian, UK model)
2-227-313-00	(AEP, US, Canadian, UK model)
3-701-438-21	(A) W 2.5, plastic (AEP, US, Canadian, UK model)
3-701-613-00	(A) Bag, plastic
3-701-614-00	(A) Bag, plastic
2 102 02 102	(AEP, US, Canadian, UK model)
3-701-616-00	A Bag, plastic
3-701-630-00	A Bag, plastic
3-701-634-00	A Bag, plastic
3-710-806-00	Adaptor, 45 r.p.m.
3-770-585-11	D Manual, instruction
	(AEP, E1, E2, UK model)
3-770-585-21	Manual, instruction
	(US, Canadian model)
3-794-265-11	Sheet, XL-15 (E1, E2 model)
3-749-284-31	Manual, instruction; French
	(Canadian model)
4 915 655 00	(A) Nut (A), cartridge
4-815-655-00	(AEP, US, Canadian, UK model)
4-848-002-00	(A) Cushion, arm pipe
4-858-407-00	(A) Drop-point Adjustment Key
4-858-483-00	(C) Extra Weight
4-858-585-00	(C) Cushion, right
4-858-586-00	C Cushion, left
4-858-587-00	(B) Case, accessory
4-858-588-00	© Bag, protection
4-858-589-00	(A) Plate, protection
4-858-590-00	Box, accessory
4-858-593-00	(A) Cushion, main weight shaft
4-858-735-00	F Carton

Specifications for Cartridge XL-15 (E model)

Type: Moving-magnet

Frequency Response: 10 – 30, 000 Hz

Channel Separation: 25 dB at 1 kHz

Output Voltage: 4 mV at 1 kHz, 5 cm/sec, 45°

Load Impedance: 50 kΩ

Tracking Force: 1.2 – 2.5 g (1.7 g recommended)

Stylus: Sony ND-15G (conical 0.5 mil diamond)

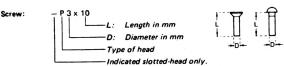
Weight: 5.2 g

1/4 WATT CARBON RESISTORS (A)

Note: Circled letter (A) is applicable to European models only.

					5 . 11		Don't Ma	Ω	Part No.	Ω	Part No.	Ω	Part No.
Ω	Part No	Ω	Part No.	Ω	Part No.	Ω	Part No.	22	Tunt Ivo.	32	Tun Ivo.		
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1	1-246-545-00
1 1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00		1-210-814-00
1.1	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00		1-210-815-00
1.2	1-246-403-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00		1-210-816-00
1.3		15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.5	1-246-405-00	10	1 240 423 00	. 100							. 046 506 00	1 634	1-210-818-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00		1-210-819-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00		1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00		1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00		1-244-754-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
				070	1 046 450 00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00		1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.6k		36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00			39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-240-387-00	JJK	1 240 011 00				
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	li .	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	1	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
0.2	1 240 420 00							201	1 046 517 00	680k	1-246-541-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k		68k	1-246-517-00	1			
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	H	1	75k	1-246-518-00		1-246-543-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	1		82k	1-246-519-00				
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-240-344-00		
				<u></u>		1					1		

HARDWARE NOMENCLATURE



more control of the c
Unless otherwise indicated, it means
cross-recessed head (Phillips type)

Reference Designation	Shape	Description	Remarks					
SCREWS								
Р	8 D	pan-head screw	binding-head (B) screw for replacement					
PWH	€13	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement					
PS PSP	853-	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment					
PSW PSPW	0 \$\$	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement					
R	€3	round-head screw	binding-head (B) screw for replacement					
К	Þ	flat-countersunk-head screw						
RK	₽	oval-countersunk-head screw						
В	Ð	binding-head screw						
T	(truss-head screw	binding-head (B) screw for replacement					
F	₽⊃	flat-fillister-head screw						
RF	€⊃	fillister-head screw						
BV	€ Þ	braizer-head screw						

-Diameter of usable screw or shaft

Reference Designation	Shape	Description	Remarks				
SELF-TAPPING SCREWS							
TA		self-tapping screw	ex: TA, P 3 x 10				
PTP	€	pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement				
PTPWH	₩	pan-nead self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement				
PTTWH	=	pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement				
	1	SET SCREWS					
SC	-63-	set screw					
sc	-⊚€⊒-	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket				
		NUT					
N	-()-()-()-()	nut					
		WASHERS					
w	0	flat washer					
SW		spring washer					
LW	0	internal-tooth lock washer	ex: LW3, internal				
LW	0	external-tooth lock washer	ex: LW3, external				
	RETAINING RINGS						
E	0	retaining ring					
G	8	grip-type retaining ring					

Sony Corporation

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STEREO TURNTABLE SYSTEM



US Model Canadian Model AEP Model UK Model E Model

CORRECTION

: Corrected Portion.

Correct the service manual as shown below.

No. 1 January, 1979

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